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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/671,863	09/29/2003	Ju-hwan Kim	1572.1100	5397

21171 7590 02/24/2005

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EXAMINER
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STERLING, AMY JO

ART UNIT	PAPER NUMBER
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3632

DATE MAILED: 02/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/671,863

**Applicant(s)**

KIM ET AL.

**Examiner**

Amy J. Sterling

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 08 December 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 30 and 38 is/are rejected.
- 7) ☒ Claim(s) 5-29 and 31-37 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 December 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>11/16/04</u> . | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

This is the second non-final Office Action for application number 10/671,863 Display Apparatus, filed on 9/29/03. Claims 1-38 are pending. This is the second non-final Action is in response to applicant's reply dated 12/8/04. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

#### ***Drawings***

The drawings were received on 12/8/04. These drawings are acknowledged and acceptable.

#### ***Specification***

The amendments to the specification, dated 12/8/04 have been entered.

#### ***Claim Objections***

Claim 23 is objected to because of the following informalities: Claim 23 recites a "ball unit" which is likely intended to be a "ball bearing unit".

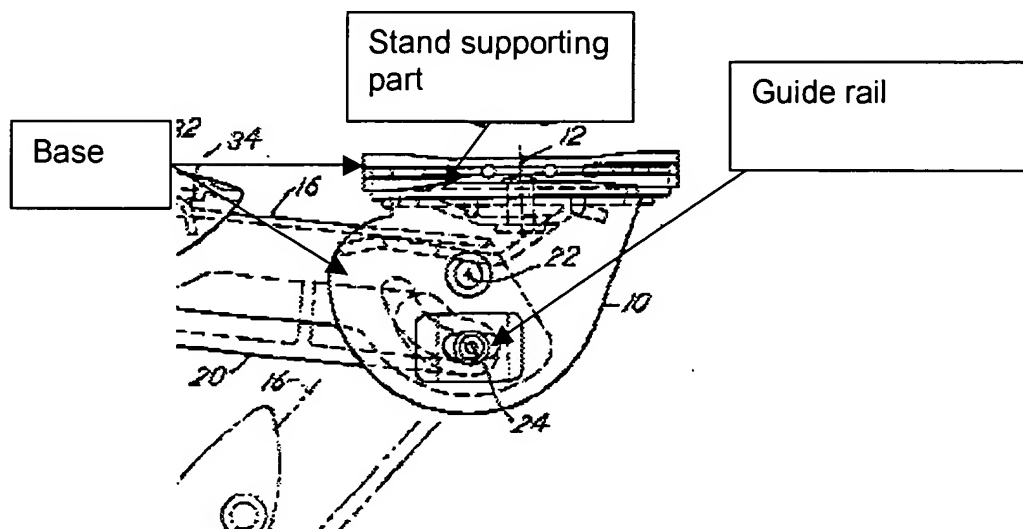
#### ***Claim Rejections - 35 USC § 102***

Claims 1-4, 30 and 38 are rejected under 35 U.S.C. 102(b) as being anticipated by United States Patent No. 6270047 to Hudson.

The patent to Hudson discloses a display apparatus (the device could display a keyboard) having a base part (See Drawing Below), a main body (16) a body bracket

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fixedly coupled to the main body (18), a pair of sliders (adjustable fasteners, near 24, See Col. 3, lines 7 and 8) connected to the main body (16) to be engaged with a pair of parallel guide rail (edges surrounding the indicated slot, a slot being on either both sides of the device, see Drawing Below) to stand on the base part, and a guide bracket (10) coupled to the guide rails and a stand supporting part (See Drawing Below) installed on the base part and a connecting assembly (26,28) to connect the stand part to the body bracket via the main body (16), and a supporting bracket (30) to support the connecting assembly. Hudson also teaches at least one spiral spring (14) having an elasticity enough to support weight of the main body to extend and contract in response to the movement of the slider. Hudson also shows a spring supporting block (15) provided between the sliders wherein the at least one spiral spring (15) has a first end and a spiral shaped wound part coupled to the guide bracket and a second end extended from the wound part coupled to the block via the rest of the spiral spring.



***Response to Arguments***

The applicant has argued that the rejection under 102(e) in view of Ishizaki et al. is improper because the Ishizaki et al. reference is a 37 CFR 371 of PCT/JP01/10931, which was not published in English until 8/18/2003. This argument is persuasive and therefore the rejection under 35 USC 102(e) has been withdrawn. All other arguments are moot in view of the new grounds of rejection.

***Allowable Subject Matter***

Claims 5-29 and 31-37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

With regards to claims 5-7 and 35-37 the reason is that the prior art does not teach wherein there are two spiral springs, one in front of the guide bracket and one in the back of the guide bracket.


With regards to claims 8-29 and 31, the prior art does not teach a ball bearing unit provided between the guide rail and the slider.

With regards to claim 32, the prior art does not teach wherein the slider is drawn out from the rail, but a predetermined length by an upward movement along the guide rail.

With regards to claim 33 and 34, the prior art does not teach wherein the spring supporting block to perform a sliding motion along with the movement of the sliders.

***Conclusion***

Any inquiry concerning this communication should be directed to Amy J. Sterling at telephone number 703-308-3271. The examiner can normally be reached (M-F 8 a.m.-5:00 p.m.). If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Leslie Braun can be reached at 703-308-2156. The fax machine number for the Technology center is 703-305-3597 or 703-305-3598 (formal amendments) or 703-308-3519 (informal amendments/communications). Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist at 703-308-2168.

  
Amy J. Sterling  
2/20/05